

engineering data service
electronic products

SYLVANIA
5767

DESCRIPTION: ULTRA-HIGH FREQUENCY GENERAL PURPOSE TRIOD

FORMER DESIGNATION: SB846H

The planar triode 5767 was designed for use as a cw oscillator at frequencies up to 3300 mc. It is identical with Sylvania Type 2C37 except that both discs are folded, making it particularly adapted to applications in lumped-constant or butterfly circuits.

RATINGS AND CHARACTERISTICS

ELECTRICAL RATINGS

Heater voltage	6.3 volts
Heater current	0.4 amps
Maximum plate voltage	350 volts DC
Maximum plate dissipation	6 watts
Maximum seal temperature	175° C
Maximum operating frequency	3300 mc min.
Direct interelectrode capacity (average)	
Grid-plate	1.37 μμf
Grid-cathode	1.27 μμf
Plate-cathode	.025 max.

TUBE CHARACTERISTICS

Cathode bias resistor	400 ohms
Plate current	12 ma
Transconductance	4500 μmhos
Amplification factor	25
Grid voltage for 10 microamperes DC	—28 V DC

TYPICAL OPERATING CONDITIONS

(1) UHF Oscillator CW

Plate voltage	150 V DC
Plate current	15 ma DC
Grid resistor	3000 ohms
Frequency	1000 mc
Power output	500 mw

(2) UHF Oscillator CW

Plate voltage	150 V DC
Plate current	25 ma DC
Grid resistor	100 ohms
Cathode resistor*	100 ohms approx.
Frequency	3300 mc
Power output	200 mw min.

* Adj. for rated plate current

(3) UHF Oscillator CW

Plate voltage	200 V DC
Plate current	25 ma DC
Grid resistor	100 ohms
Cathode resistor*	100 ohms approx.
Frequency	3300 mc
Power output	450 mw min.

* Adj. for rated plate current

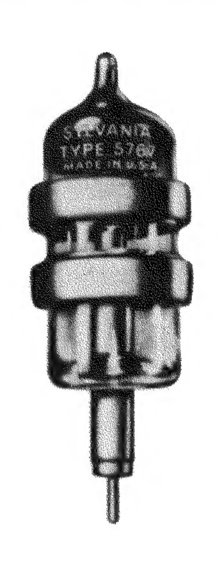
(4) Pulse Operation

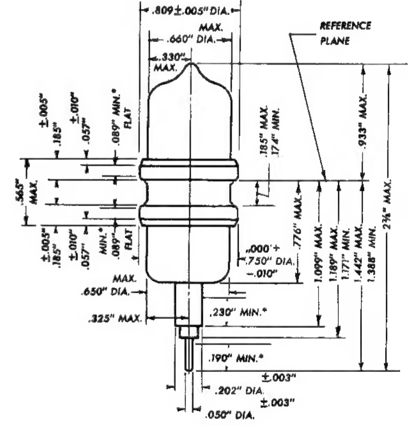
Plate voltage (Peak)*	1500 volts
Frequency	3300 mc
Power output (Peak)	175 watts
Peak emission	1500 ma min.

*Test Conditions:
Pulse width, 1 μsec
Pulse rep. rate=2000 pps.

**Test Conditions:
Plate voltage (peak)=100 V
Pulse width=3 μsec
Pulse rep. rate=500 pps.

MECHANICAL DATA





SYLVANIA ELECTRIC PRODUCTS INC.
1740 Broadway New York 19, N. Y.